<u>WORK IT ACROSS AND WORK IT UP</u> An Example of Planning Instructional Targets across Grade Levels for Different Symbolic Levels

Learning Progression: Earth & Space Science: Students will develop an understanding of the Earth's dynamics.

Standard: Understand the Earth's materials and processes.

Grade Level		Differentiation of Instruction			
3 rd - 5 th	On Grade Level	Abstract Symbolic	Concrete Symbolic	Presymbolic	
Grade	Expectation (Not adapted)	•			
Teaching Activity	Identify & describe materials that the Earth is composed of (solid rocks,	Given Earth materials & non materials, identify each material	Given Earth materials & non materials, identify each material that belongs to the Earth and label	Given an Earth material vs. non example. Identify the material when asked to find the "rock", "water", and "soil".	
	soil, water, gases).	that belongs to the Earth and label.	Earth and label	water, and son.	
How Student Shows Mastery	List materials, and answer comprehension questions each material.	Label materials and write 1 sentence about each material. Use computer, peer scribe, or independently.	Identification of at least 2 materials from a choice of picture symbols (example vs. non examples). Fill in the blank with the picture symbol appropriate, for each sentence (e.g., The Earth's is wet. <i>nater</i>)	Select the correct answer (can use AT, eyegaze, pointing response).	

Grade Level			Differentiation of	Instruction	
6th - 8th	On Grade Level	Abstract Symbolic	Concrete Symbolic	Presymbolic	
Grade	Expectation (Not adapted)			·	
Teaching	Demonstrate an	Using a model of the	Using a model of the Earth,	Using a model of the Earth's	
Activity	understanding of the	Earth, identify the	identify the lithosphere.	lithosphere	
	Earth's Lithosphere.	lithosphere.	Create model of Earth's		
	Eurui s Eimesphere.	Create model of Earth's	Lithoshere using graham		
		Lithoshere using graham	crackers, frosting, and wax		
		crackers, frosting, and	paper.		

		wax paper.		
How Student	Identify what layers of the	Point to and name the	Point to and label (pic	Move 2 graham crackers when
Shows	Earth are part of the	two layers of the Earth	symbols) the two layers of the	asked to make the Earth's
Mastery	lithosphere and the	that form the lithosphere	Earth that form the	plates move.
·	properties that allow for	(crust and upper mantle).	lithosphere (crust and upper	
	movement.	Move plates (graham	mantle).	
		crackers) to show how	Move plates (graham crackers)	
		plates can move past	to show how plates can move	
		each other, or into each	past each other, or into each	
		other.	other.	

Grade Level		Differentiation of Instruction			
9th and 10th	On Grade Level	Abstract Symbolic	Concrete Symbolic	Presymbolic	
Grade	Expectation (Not adapted)		·	·	
Teaching	Explain the process of	Identify example of	Create a mountain with clay,	Using clay, set clay mounds up	
Activity	Mountain Building	fault blocking and	using the process of fault	for folding to occur. Ask	
	Fault Blocking	folding in mt. building	blocking or folding.	students to "Build a Mountain	
	Folding	from pictures.	-	by folding"	
How Student	Correct answers in oral	Label pictures with	Match picture symbol of	Push the mountains away from	
Shows	assessment.	mountain building	mountain to clay mountain.	body to mountain build.	
Mastery		science term.			